

Certainly one of the high points of the February general club meeting occurred when Club Master Technician Doug Dickinson KL7IKX announced that he had performed the work necessary to get some new autodial functions operational on the club's KL7AA/R 146.34/94 repeater autopatch. It's important to put in print here high atop the front page, since most of the info pertains to potential emergency situations.

"Autodial" operation from the touch-tone pad of a 2-meter transceiver allows one to get in touch with certain parties via a phone patch which is interfaced with the repeater, without having to bring up the dial tone. All you do is punch in the code and the number is automatically dialed for you! There are 3 new autodial codes -- 1) "273" which connects you with the Anchorage Police Department; 2) "278" which connects you with the Alaska State Troopers; and 3) "272" which connects you with the club record-a-phone at the QTH of Darling April Walter AL7CV, our Membership chairperson. Just punch in the three-number code (skip the quotation marks) and you are in business. Doug advises that you call the police department or Troopers when you have a situation where there are no injuries; otherwise, dial 911, which is an autodial function we have had for almost a year now. Also remaining on the autodial Top 40 is "411," the directory info number. Doug says it's working now!

It is also very important that Doug receive the richly-deserved recognition he is due for the countless numbers of hours he has spent working on the 34/94 machine. Kudos go to him and all involved in the recent move of the machine, also. Thanks a lot, guys and gals!

ANCHORAGE ARC

----- "THE VOICE OF THE ANCHORAGE AMATEUR RADIO CLUB" -----
Post Office Box 1987 Anchorage, Alaska 99510-1987 (907) 345-0719
March 1982

----- MAT VALLEY CLUB TO SPONSOR NOVICE CONTEST -----

A Novice band contest sponsored by the Matanuska Amateur Radio Association (MARA) will start at 2:00 pm, April 3, 1982, and end at 2:00 pm, April 4, 1982. The contest is open to all Amateurs. Call "CQ MARA," exchange signal report and state, province, or country.

Contestants may operate a total of 24 hours. 15 minutes is the minimum operating period, and must be logged with each band change.

Scores are: Total contacts times a multiplier consisting of one point for each state and Canadian province worked, and two points for each DX contact. Each station may be worked only once on each band.

A perpetual trophy will be awarded to the highest-scoring member of MARA, and a plaque will be awarded to the highest-scoring contestant.

Send log with contacts indicated to Kenny Greene KL7JAI, 3719 W. 80th, Anchorage, AK 99502.

ENTRIES MUST BE RECEIVED ON OR BEFORE APRIL 30, 1982. Novice bands are 3.71-3.75 MHz, 7.1 to 7.15 MHz, 21.1-21.2 MHz, and 28.1-28.2 MHz.

----- NEW ALASKAN PHONE NET ON 80 METERS -----

Darrell Scott KL7KV of, I think, Eureka (forgive me if I'm wrong, Darrell) announces a new 80-m phone net. It's known as "The Motley Group Net," and it meets daily on 3935 kHz at 9:00 pm local time. Darrell advises that the net has already earned its keep by having already passed some emergency traffic. If you can check into this net, Darrell and the other regulars will greatly appreciate it.

----- ...AND WHILE WE'RE TALKING ABOUT NETS... -----

It would be a real shame to see the Alaska Code Net die on the vine for lack of interest. This net needs everyone's support, especially you new members who may be more disposed to working cw than other hams. There is usually traffic to be passed every night, and that means there needs to be someone there to take it. If for nothing else, to get prepared for the inevitable disaster when we need to get traffic passed, and code's the only way! SO -- daily at 8:00 pm Anchorage time on 7060 kHz (incentive for you Novices & Techs to upgrade). C U THERE -- PLEASE!!!!!!

----- ANCHORAGE AMATEUR RADIO CLUB TREASURER'S REPORT -----
covering the period 1-21-82 to 2-17-82

STATEMENT OF FINANCIAL OPERATIONS -- Income: Club dues, \$837.00; Pins/patches/buckles, \$60.00; Donations, \$1,039.03; Other income, \$202.19; SUBTOTAL, \$2,138.22. EXPENSES: Donations, \$72.03; Equipment repair, \$25.07; Hospitality, \$66.50; Telephone, \$47.91; Mailings, \$40.00; Newsletter, \$137.50; Patch order, \$155.00; SUBTOTAL, \$544.01. NET INCOME FOR PERIOD, \$1,594.21.

----- STATEMENT OF FINANCIAL POSITION, 1-21-82 to 2-17-82 -----

ASSETS	Beginning balance	Ending balance
Checking	\$ 91.09	\$ 465.47
Savings	296.30	306.11
Cash account	17,897.54	18,075.53
SUBTOTAL	\$18,284.93	\$18,847.11
OTHER ASSETS		
Equipment	\$ 5,188.71	\$ 6,220.74
MEMBERS EQUITY	\$23,473.64	\$25,067.85
AVAILABLE CASH	\$12,860.93	\$12,923.11

----- ANCHORAGE AMATEUR RADIO CLUB CALENDAR FOR MARCH, 1982 -----

March 5 Monthly general club meeting, UAA Consortium Library, 7:00 pm.

6 Iditarod Trail (Anchorage-to-Nome) Sled Dog Race begins.

13 CLUB SOCIAL X-C skiing, meet at Service High School at 10:00 am.

31 Monthly Board of Directors meeting, Datco Realty, 4th and Denali, 7:00 pm. RESCHEDULED DUE TO IDITAROD, SO DON'T GET CONFUSED! LIFE IS TOO SHORT TO BE CONFUSED!

April 2 Monthly general club meeting, UAA Consortium Library, 7:00 pm

WHILE I HAVE YOUR ATTENTION, FOLKS, THE DEADLINE FOR APRIL NEWSLETTER COPY IS

GOING TO BE MARCH 19, 1982. I'll be out on the trail.. I don't know how we will

do it, but by golly, WE'LL DO IT!! Bryce Rumery AL7DL is going to come to my rescue!!!!!!



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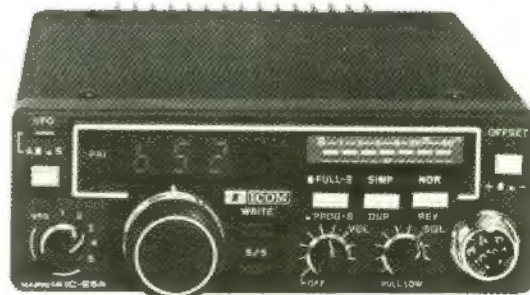
Robin Smith—AL7CB—(907) 333-9681

Frank Pratt—AL7CA—(907) 333-8212

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COMPUTERS!

(EDITOR'S NOTE: This article was written by Rod Maney during his vigil -- before his ham ticket came in the mail. He now has the call sign, KL7SA)

After the thoughts of the expense and time involved and a lot of coaxing from KL7FS and KL7CQ, and after approximately 3 months, I finally decide to study for the Ham Exam. I saw the light! Study, study, study! Resistors, capacitors, resistance, inductance, capacitance, filters, $E = \frac{1}{K} \cdot \frac{R_1 \times R_2}{R_1 + R_2}$, lots of formulas to memorize, rules and regulations to memorize, frequencies to memorize, Morse code to memorize, Everything to Memorize, have to get faster with the code, need 13 wpm, Bear on my back, will I ever make it....? How did I ever get through 3 months of all that. Thank god I was a radioman in the Navy, at least the code wasn't too hard. Now the big day is coming, Tuesday, December 8, 1981, Exam Day! Must cram all weekend, and take a couple of days off work to cram. Now the big night is here. Go to the base and can't find the school where the exam is being given! I know they said to turn left here! Got to find that school, time is running out! Oh, there it is! Good, get in there and get a good seat up front so I can hear the tape real good. Wilse gives us some code practice until the gal from the FCC arrives. Don't get nervous, now. Here it comes, 20 wpm, too fast for me. Oh well, I know I can get the 13 wpm. Here it comes, get the one minute practice perfect. Now time for the real thing, no sweat, copying real good, Oh No! what was that one? Oh No! the tape! must be something wrong with it, it seems to be going faster, I can't keep up, I'm losing it, no! no! no! lost some more! Oh well, try the written part, see how I do. Missed one to many. Fear Factor got to me! After all of that practice time, how could I let the Fear Factor get to me? Well, time for the 5 wpm test, no sweat, passed 100%. Now, time for the big written exam! What were all those formulas, frequencies, and rules? Oh god, if you ever wanted to help somebody, now is the time! Well, so far so good, just a couple I couldn't answer, Oh No!, a couple more, oh well, I'll go back and get those later. Hope there isn't too many more like those. Aaaaaaah! the end of the test! Now I can go back and guess at the ones I missed. And guess I did! Oh good, all done, hope I passed, give test to Wilse, now wait to see how I did. Hooray! Hooray! Hooray! I passed! Wow! Wow! Wow! I am a Technician! Can't wait to tell my family.

Computers? What does all of this have to do with computers? Well that is coming. What was that? The Examiner said that it would be 3 months before my license would arrive. That can't be, can it? I mean, I was told that they had computers now, I thought computers made everything go faster. After going through 3 months of hard studying and I still have to wait 3 more months! Oh well, just have to wait and see, I just can't believe it will take that long. Get to work the next day and see KL7FS and KL7LO, they both congratulate me, must have seen KL7CQ. KL7CQ tells me it used to only take 2 weeks to get your license, but now that they have gone computerized, it takes longer, can that be? He lets me use his 2 meter rig for listening to what is going on until my license arrives. Been listening for 4 weeks now, sure wish my license would arrive. Heard a guy took his test on December 4 1981 and his license arrived already. Maybe mine is on the way. KL7FS says it will be here Friday, KL7LO says it will be here Saturday, sure hope so, KL7CQ says 8 more weeks, sure hope he is wrong! Friday and Saturday pass and still no license, get back to work on Monday and KL7LO says to keep the faith, any day now it will be here. KL7FS says Friday again, check the mail closely every day, still nothing. KL7LO says, everyday now, that it will be there when I get home, can't wait to get home and check the mail, still no license. Both KL7FS and KL7LO telling me, every day, they feel it will be there when I get home. Another week goes by, still no license. Monday morning comes, KL7LO asks if my license had arrived yet, I tell him no, he says that if I haven't gotten it yet, better give up hope, then laughs. I have come to a conclusion! You can't believe a word KL7LO or KL7FS say!

Next time I am going to make them put up some money or have them put it in writing! I know that they are just having fun, after all, they went through the same thing. I shut down the 2 meter rig, I can't stand to listen anymore without being able to talk. If a computer salesman ever comes to me and tells me that computers are better and faster, I think I will _____
Oh well, better not do that. I know that it will be worth the wait though, and when my license does arrive, LOOK OUT WORLD!!!!!!!

A Ham In Waiting

(He was when he wrote it -- now he's KL7SA!)

----- HISAMOTO TO TOP BILL AT ARRL CONVENTION -----

Congratulations are due Bob Hisamoto KL7AM of Fairbanks, who will be delivering the keynote speech at this year's National Convention of the American Radio Relay League. Bob will give a talk and show his movie on the aurora borealis during a day session, then wow 'em with his speech at the big evening banquet. For those interested in attending, the convention will be in Cedar Rapids, Iowa, July 23-25. Write Cedar Valley ARC, Box 994, Cedar Rapids, Iowa 52406 for further information. CONGRATULATIONS AND HAVE FUN, BOB!!!!!!

----- FROM THE FEBRUARY 15, 1982, "W5VI REPORT" -----

I am reprinting the following articles from the above-referenced publication because I feel that before too much longer, Fred Maia W5VI will have been proven right and we hams who are already licensed may be playing a large role in the licensing process. I know the article(s) is (are) long, but they seem pretty important to me.....

FCC Hopes To Discontinue Amateur Operator Testing

One of the key proposals for amending the Communications Act is the use of amateur volunteers for preparing and administering amateur radio examinations. The Goldwater Bills, R-AZ, (S-929, S-1791); the Dannemeyer Bill, R-CA, (HR-2203); and the Wirth Legislation, D-CO, (HR-5008) all suggest it. When Barry Goldwater, K7UGA, introduced S-929 into Congress he said, "The availability of federal funds to administer the Amateur Radio Service need not and should not be permitted to preclude amateur radio involvement for the young or elderly. Amateurs must be permitted, through voluntary efforts supervised by the FCC to supply the services, including examinations, to those who would benefit from them, as funds are not available to supply these services any longer. In that regard, the FCC must insure that there are no conflicts of interest in the preparation and administration of amateur examinations and that no one is treated unfairly."

The FCC has already gone on record as favoring the move to let the amateur community do its own exam writing and testing and is the first to recognize that the present system simply isn't working. First, it's too expensive for the government to give the tests - particularly in view of the agency's ever shrinking budget. Secondly, it doesn't take long before those that know where to obtain the examination information get verbatim copies of the FCC amateur tests. First amendment and Freedom of Information rights being what they are, the FCC appears powerless to protect the security and integrity of its exams. In effect, the whole amateur radio examination program has degenerated into a farce and the feeling is that the amateur community could do a much better job of screening its membership than the government. The Commission has always recognized that amateurs are better at enforcing rules and motivating its peers than they are. It appears a "lead-pipe cinch" that in due time - and just how long this amounts to is anybody's guess - that the FCC will be out of the ham testing business and that the amateur community will be deciding who is qualified to utilize its frequency allocations.

No one realizes this better than the ARRL and they have submitted a detailed proposal to the FCC for implementation of a program of self-testing by the amateur fraternity. The League says that their system will provide more opportunity for applicants to take amateur exams, improve the security and integrity of the

examinations, decrease the workload of the FCC in time of deep budget cuts and thus shorten the turn-around time of processing amateurs' applications.

The ARRL pointed out that less applicants (30% less over the last 3 years) are taking amateur exams since, due to budget cuts, the FCC has been forced to seriously curtail its testing function. It is also a fact that the amateur operator population (and ARRL membership) is at a decreased level. Every U.S. ARRL Division shows less membership than that of a year ago. (Strangely, the Canadian Division, which pays the highest dues, is the lone ARRL Division with more members.) It is obvious that the amateur radio hobby needs "new blood".

The League suggested a "Certification Program" in which the Commission would authorize "Certified Organizations" meeting certain criteria "to establish and coordinate corps of Certified Volunteer Instructors and Examiners" to assist the FCC with the amateur radio operator testing function. Under the ARRL proposal....

- The FCC will screen and certify qualified organizations.
- Approve large pools of questions for each license exam level submitted by each of the Certified Organizations.
- and issue licenses based on the Instructor's or Examiner's certification that the candidate has successfully demonstrated his competence in all areas required by the FCC Study Guides for a specific license class.

At the Novice level, the ARRL proposes the FCC certify non-profit and accredited educational institutions and authorize these schools to certify instructors to teach an approved course of study that would culminate in the Novice exam. The instructor, who would have to be 18 years or older and possess a General Class or higher ticket, would certify that each student has passed Morse Code sending and receiving tests at 5 w.p.m. and administer and grade a self-created 20 question Novice exam covering material from the FCC Novice Study Guide. A Novice license and call sign would be issued by the Commission on the recommendation of the instructor. The FCC might want to conduct spot-check retests, the ARRL said.

The League suggested that for Tech/General/Advanced and Extra Class amateur exam administration, the Examiner be at least 18 years of age, hold an Extra-Class license, sign an affidavit agreeing to follow specified examination procedures, be willing to schedule regular examination dates and travel relatively short distances to hamfests and conventions to give tests without pay.

To increase the security and integrity of the written exam at license levels above Novice, the ARRL proposed that examiners use a pool of 500 FCC approved questions. The questions/answers again will be created by each Certified Organization using the FCC Study Guides as its basis. Periodically new examinations will be generated by the Certified Organization using questions from the approved pool. The code test at 13 and 20 w.p.m. could be either the present "comprehension-type" fill-in-the-blanks test or the old "perfect copy" exam. Each Certified Organization would be required to produce a variety of code test cassettes for FCC approval.

The Certified Organization would be responsible for the security of its exams. To increase the soundness of the program, three Certified Examiners must be present during each Tech/General, Advanced or Extra Class examination which will be graded at the testing site. All three examiners must certify on each applicant's FCC Form 610 or equivalent that the candidate has passed. Novice exams could also be given by the three Certified Examiners. "Code Credit Slips" and "Interim Permits" could possibly

"W5YI," cont'd.

be given by the volunteer examiners as part of the program. An instructor/examiner or Certified Organization "decertification process" would exist to revoke examination privileges should the FCC determine that the approved examination process has been violated.

The League said "Of central importance, is the restoration of the integrity of the Amateur licensing program and the consequent general improvement in the competence of new licensees at all levels." There is no time table for the FCC getting out of the amateur testing business, but it has to come sooner or later. Unfortunately the FCC moves very slow and it could be some time before it comes to pass.



A YL'S POINT OF VIEW

Kirsten Petersen KL7PQ

Well, the Fur Rondy doggie races are over for another year, and hams across the city race themselves home to thaw out. Oh, but it was fun! Why else would I stand outside in the cold and cheer the mushers on when I could see them just as easily from inside my nice, warm car? Even #19 was worth waiting for, blessed as he was with an admirable sense of humor (though I'll admit I waited for him in my car).

Meanwhile, back at the ranch....Home for PQ is Wasilla. The only problem with wonderful, windy Wasilla is--you guessed it--the wind. The wind did blow and the antenna did topple. I'd intended to take it down come time for the Iditarod and Koyuk, but not quite that early.

One end of this antenna was and still is tied to a tree at the back of my yard. The other end was tied to a pole which was nailed to the side of the house and secured at the top with a rope. The rope held, but the nails didn't. It was left to me one cold and windy night to finish taking the pole down and untie the antenna so I could stash it safely by the tree that the other end was tied to.

The weekend rolled around, and it was time to raise the antenna (again). What a show the neighbors got that day! The closest thing I have to a ladder is the roof of my car. Put two tires on top of that, and it's finally high enough for me to climb onto the roof of the house without floundering around too much. Hammer, hammer, pound, pound. Dipole in place (minus the cumbersome pole), I gingerly edge my way back onto the tires and the roof of my car.

Then I restrung the coax. Since it was responsible for the loss of some shingles in the last windstorm, I opted to string it parallel to the dipole so that it would be protected by the house from most of the wind. Just as I finished that, I seemed to remember hearing somewhere that you do not string the coax parallel to a dipole but perpendicular to it.

I looked at the whole thing in disgust, said something not very ladylike, and went inside to thaw out. That coax is still in the wrong place.

Kirsten, KL7PQ

"WE NEED OPERATORS DURING THE WEEKDAYS FROM NOON TO 5, AND ALSO FROM 7 AM TO NOON!!!" So sayeth Ken Delp KL7FD, our chief Iditarod Ham coordinator. Ham HQ will be in the Alascom Building on Gov't. Hill this year. It is a secure building, meaning that NO DROP-INS WILL BE PERMITTED! If you want to work HQ during Iditarod, you must sign up in advance with Joe Talbott KL7NK ASAP, call him at 271-5040 work or 688-9041 home. PLEASE SIGN UP NOW AND AVOID A HASSLE DURING THE RACE!!!!

Anchorage Amateur Radio Club
General Meeting
February 5, 1982

The meeting was called to order at 7:15 p.m. by President Betty Rhodes KL7AP. She asked that all membership dues be paid this evening since it was the deadline for those wishing to receive the next newsletter.

Following introductions, Garry McCrorey AL7BL was presented with life membership certificate #46. These certificates are being beautifully lettered by Cathi Choate, daughter of Tom Choate KL7JA.

Our 1981 Ham of the Year David Epstein KL7LO was the recipient of an inscribed gold-pan. President Betty KL7AP announced that he will represent the club at the ACC Spring Volunteer Reception.

Bill Reiter KL7ITI, Chairman of the Fur Rendezvous Race communications, explained the checkpoint locations and the duties involved and asked for more help. He also asked that 34/94 be kept clear of other traffic during racetimes except for emergencies. Wilse Morgan KL7CQ asked for more help at the race board downtown and for a shingle-painter.

The Chugach Sled Dog Association would like some assistance in the form of radio communication for a race from Pippol Field to Peters Creek and back February 27 and 28.

Ken Delp KL7FD explained the implication of participation in Iditarod and requested more volunteers for the trail as well as for headquarters set-up and daily operation.

Following break, President Betty KL7AP announced the February social at Romano's after the Fur Rendezvous races Saturday the 20th.

President Betty KL7AP read the proposed changes to the by-laws that were recommended by the board. They were presented individually, and each passed by at least a 2/3 majority.

The membership voted to accept three more life members: #57, Erv Edge AL7CN; #58, Arlene Steward KL7HO; and #59, Bob McKinnie AL7AW.

Fred Wegmer KL7HFM explained, for the benefit of new members, that the life membership money is placed in a permanent account, the interest from which finances our scholarships at ACC and UAA. Gratitude was expressed to Herb Rosenthal AL7G for originating the concept.

After discussion of a recommendation by the board, Bill KL7ITI moved that we appropriate around \$650 for a duplexer for a repeater in Glenallen, title to be retained by AARC. The duplexer is to be purchased when Rick Henry AL7O, our SCM, indicates that Glenallen is adequately prepared for it. The motion was seconded and passed.

Following discussion of purchase of an HF station for club functions, Fred KL7HFM moved that the general membership empower the board members to assemble a station within a figure up to \$1,700 which in their judgment will best do the job. The motion was seconded and passed. Jim Minton KL7JIJ and Mark Hadley KL7HD volunteered to assist in determining the most satisfactory combination for our purposes.

Fred KL7HFM suggested that the old Rabbit Creek Fire Station might be available to us. Dick Galllear KL7IQF will inquire.

Mark KL7HD, Repeater Frequency Coordinator, asked that anyone wishing to put up a private repeater check with him for clearance first. He says the fast-scan repeater is on its way.

Bob AL7AW has the boards for the tone-alert monitors for 90/30. Anyone interested in acquiring one should contact him.

Following door-prize drawings, the meeting adjourned at 10:35 p.m.

Attendance 95

Respectfully submitted,
Arlene Steward KL7HO, Secretary

FOR SALE: Heathkit HR-1680 receiver, HX-1681 cw transmitter, PS-23 pspy, exc. cond, used only 4 months. Glen Turner AL7DN, 243-7845.

HELP A HAM SUPPORT HIS HABIT! (AGAIN!) Fred Toliver KL7HM can refer you to a Century 21 office if you're interested in buying/selling a house, mobile home, or recreation lot. He's standing by at 349-3668.

(sorry about the meandering asterisks!)

Anchorage Amateur Radio Club
Board of Directors Meeting Minutes
February 17, 1982

Present: President Betty Rhodes KL7AP, Treasurer Fred Toliver KL7HM, Secretary Arlene Steward KL7HO, Membership Chairman April Walter AL7CV, Activities Manager David Stevens KL7EB, License Trustee Bill Reiter KL7ITI, J.D. Delancy K1ZAT, Dave Cloyd KL7M, Jim Larsen WAØLPK, David Epstein KL7LO, Herb Rosenthal AL7G, Wilse Morgan, KL7CQ. Absent: Vice President Bob McKinnie AL7AW, Steve Norrell KL7IYX, Lloyd Fuller KL7JGN. Also present: Reed McKinney KL7MJ.

The meeting was called to order by President Betty KL7AP at 7:05. The minutes of the general meeting were found to need some correction. Dave KL7M moved that the secretary research what is to be done with life membership monies and correct the minutes accordingly. The motion was seconded and passed. The October 1980 Board meeting minutes state, "A motion was passed to provide for the Treasurer to place Life Membership monies into a permanent fund which will be invested, with subsequent interest to go into the general fund."

Bill Reiter KL7ITI requested the minutes state that his motion on the Glenallen repeater should have read "around \$650" as the money to be spent. With these two corrections, the minutes were approved.

Herb AL7G reminded us that we need a custodian to engrave identifying numbers on all our club-owned equipment. It was suggested that Vice President Bob AL7AW take that responsibility.

Treasurer Fred KL7HM presented the Treasurer's Report and announced that we have had our raffle/bingo license returned to be effective February 9, 1982.

It was decided that our treasurer will review and renew the club insurance.

Letters from Mary Lewis W7QGP, our Northwest Division ARRL Director, and from ARRL were read. It was noted that ARRL affiliation forms need to be done by Membership Chairman April AL7CV.

Dave KL7M moved we accept the resignation of Lloyd Fuller KL7JGN with regrets. Motion was seconded and passed. Lloyd will complete his work on the HF station selection. David KL7LO moved that President Betty KL7AP poll some people selected by the board before the next general meeting to determine who would be willing to fill the remainder of Lloyd KL7JGN's one-year term. The secretary was directed to send Lloyd a letter of appreciation.

The secretary was asked to write to Rick Henry AL7O to let him know of the club's decision concerning the Glenallen duplexer and to send a letter of appreciation to Mary Frohne for use of her land for a repeater site.

Witse KL7CQ moved that the duplexer be ordered immediately in order to be ready to turn it over to the Glenallen club when they are prepared. The motion was seconded and passed.

The possibility of a pyramid telephone alert system and the feasibility of a talent show in the future were discussed.

It was suggested that we consider the use of name tags at general meetings.

Jim WAØLPK moved we appropriate around \$350 to purchase a new antenna for the 34/94 repeater and that J.D. K1ZAT select one. The motion was seconded and passed.

Dave KL7M moved we recommend to the general membership in March a raffle for a trip for two to Hawaii with details to be worked out later. The motion was seconded and passed.

The meeting adjourned at 10:00 p.m.

Respectfully submitted,
Arlene Steward KL7HO, Secretary

HERE'S ONE FOR YOU HISTORY BUFFS!!! Herb Rosenthal AL7G says he can steer anyone who's interested on to a source of old "Witte" or "Woody" generators I don't know what they are but Herb swears by them so they must be good!!!! 243-5949 home or 276-3500 work are his phone numbers, so if this titillates your interest, please get in touch with him.

BETTY'S BLURBS

At the February club meeting, it was decided to empower the Board to select and purchase an HF station for the club. Lloyd Fuller, KL7JGN has been gathering input on different rigs and has come up with three recommendations: 1) Kenwood TS-130S 2) ICOM 730 3) Yaesu 707. Now the decision--WHAT DO YOU WANT????? During the board meeting this month we could not come up with a solid solution so we are including an opinion poll to be brought to the March meeting on March 5th. Do you have any other preferences? If so, please note on the sheet and reasons why you favor the radio.

The station will include a power supply, antenna tuner, external speaker, CW filter, key, and microphone. These items along with the club generator and antenna tower/trailer will provide the club with a complete station ready to go for all club events as well as being portable for emergencies. LET'S HAVE YOUR INPUT

Last month I mentioned the ARRL and the need for more support by our membership. The Long Range Planning Committee of the ARRL is considering a new program that would designate affiliated clubs as "Blue Ribbon, Chapter, or Branch" (the name hasn't been finalized) based on the category of affiliation of the local clubs. Either the established regular affiliation or the new category still require that the individual clubs have 51% of their membership also ARRL members. We have a problem. The AARC has approximately 400 members now and there are only about 125 ARRL members in the area. This means we more than likely will not meet our affiliation requirements this year.

The dues for ARRL are now \$25 per year. This includes the subscription to QST, the journal of the ARRL. What else do you get for the \$25? Well, this is what the LRPC at ARRL is trying to upgrade by the new status of clubs. They want selected clubs to "establish themselves as a local ARRL presence and center for public and membership contact, as well as a source of certain services to the membership heretofore available only from ARRL Headquarters."

At the present time, the ARRL is the only active, organized body that works directly with the FCC in promoting amateur radio for amateurs. A lot of the rules the FCC comes up with are directly attributable to the efforts of the ARRL. They need our support by joining as members.

Now the clincher: We need a VOLUNTEER (don't we always) to act as our ARRL liaison person. Mary Lewis, W7QGP Northwest Division, ARRL Director and Rick Henry, AL70, Alaska Section Manager are willing to work with someone who will volunteer to accept this position in our club.

HOW ABOUT YOU?????

**

Next subject. Now is the time for all good members to come to the aid of their club. June is still a few months away, but the nominating committee for election of new officers will be appointed at the March Board Meeting and will begin the lengthy process of selecting persons to run for office. WE NEED YOU!!!! There is a vast pool of multi-talented people in our group who could use their abilities to help guide this club in its affairs. It takes a certain amount of dedication and time to organize and produce the quality of activities we undertake each year. It has been said that it often seems a few "run" the club, but where are the rest of you who are willing to put forth to help out. I have been very pleased with the responses this year when pleas are made for help--it's amazing who has come out of the woodwork. Let's keep it up. This is a hobby, therefore it often becomes a problem when we also have to work as a Corporation of the State of Alaska within the club itself. Now I know there are lots of you out there who have bunches of experience dealing with procedural questions, coming up with creative ideas, and know a lot more about Amateur Radio than I do. How about stepping up and saying--I want an office.

I sometimes feel that we spend an awful lot of time trying to get people to participate. Is it worth it--yes! It seems to be a universal human trait that in groups there are some who remain reluctant to speak up, but will more than willingly pitch in if personally approached, hence the name we often get nailed with--the AARC Railroad... Try asking a few of the "rail-roadees" if they haven't found that once they get involved it really is worth the time, effort, and fun they derived from the activity.

SEE YOU AT THE MARCH 5th GENERAL MEETING, RM 123 UAA LIBRARY BLDG.

 * OPINION QUESTIONNAIRE FOR SELECTING A RADIO FOR THE CLUB STATION *
 * MY PREFERENCE FOR AN HF TRANSCEIVER IS: *
 * 1. Kenwood TS-130S _____ REASONS WHY I CHOSE THIS RADIO: *
 * 2. ICOM 730 _____ *
 * 3. Yaesu 707 _____ *
 * 4. OTHER _____ *
 *
 * please clip and bring this to the March 5 meeting or mail to the Club P.O. Box 1987-99501 *

----- TO ALASKAN CONTESTERS -----

de David Vogel NL7P

The ARRL DX Competition is designed for the ARRL to work the world. While this may seem basic, please keep in mind that it is not. The rules define the ARRL as the lower 48 and Canada. As KL7s, we are excluded from this group, and instead are considered as DX. How can we be separated from VEs and Ws and still be located on the North American continent? The answer is not apparent to me.

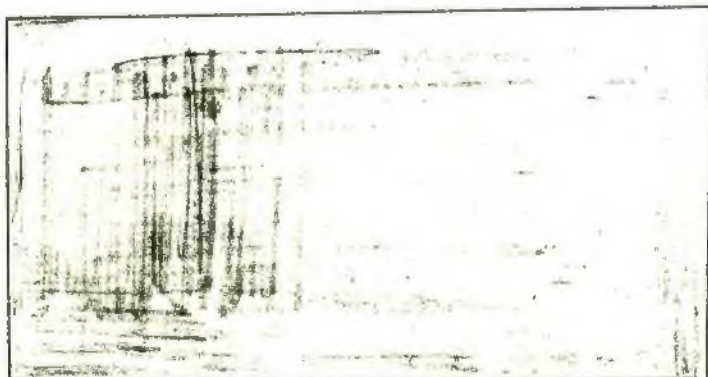
Any avid contestor or DX-chaser could have a lot of fun working DX in "our" ARRL DX contest. With the forthcoming rule change this contest will allow us, as KL7s, to enjoy working DX.

This point has been brought before the ARRL Contest Committee: The status of Alaska being part of the ARRL, equal with Canada and the lower 48, is being reviewed. In the near future, those of you who have shown interest in contesting will be surveyed by the League in order to determine the feelings of Alaskans towards their status in this contest. The viewpoints under consideration are:

1. Alaska as DX in the ARRL DX Competition (present status) -- we can only work VEs and lower-48 -- not DX.
2. Alaska as part of ARRL in this contest (desired status) -- we could enjoy working DX, but not Ws or VEs in the contest.

One final caution -- several hams have mistaken this contest rule change as a change to the DXCC rules. The two are distinct and separate; the advisory committees of each are completely different. This contest change has NO BEARING upon KL7 being a separate DXCC country.

I suggest anyone interested in our status either answer the ARRL's survey or write the Contest desk at ARRL Headquarters. I am anxious for us to be considered in the ARRL and able to work DX. That is the purpose of this contest. Then, the contest will be fun for us.



CARTOON
 BY
 GENE MORRIS
 KL7OK

" IS THAT REALLY MY QTH ~ ? "

----- FUR RONDY EXTRAVAGANZA! -----

In spite of weather colder than the proverbial well digger's sandwich, dedicated members of the Anchorage Amateur Radio Club put on another valiant, successful communications effort in support of the World Championship Sled Dog Races during Fur Rendezvous. Hardy hams clambered all over the countryside to staff checkpoints along the 25-mile race route, and endured frigid temperatures hovering around (mostly beneath) zero (Fahrenheit) and whipping winds which surely chilled even the most grizzled Sourdough/Sourdoughette to his/her miserable, wretched bones! Our collective hats/toupes/dentures, etc., are off/out to all of you for taking the time to volunteer and participate during this event. YOU ARE WHAT MAKES IT THE GREAT SUCCESS THAT IT ALWAYS IS!!

Checkpoint location & no.	Friday ham(s)	Saturday ham(s)	Sunday ham(s)
1/18-4th and Cordova	Harley KL7IZZ	Harley KL7IZZ	Harley KL7IZZ
2/11-9th and Cordova	Reed KL7MJ	Rod KL7SA	Rod KL7SA
3/16-15th and Cordova	David KL7LO	David KL7LO & Bryce AL7DL	David KL7LO
4/15-Gambell Street x-ing	Betty KL7AP	Betty KL7AP	Betty KL7AP
5/14-Lake Otis	Ginger WT7AAF	Kirsten KL7PQ	Kirsten KL7PQ
6/13-Goose Lake	James WB4WBL	Ken WB7SFO	Ken WB7SFO
7/12-Tudor Road	Bill KL7ITI	Bill KL7ITI	Bill KL7ITI
8-Basher outbound	Ed KL7DU	Ed KL7DU	Ed KL7DU
9-Chugach Foothills	J. D. K1ZAT/NL7	J. D. K1ZAT/NL7	J. D. K1ZAT/NL7
10-Basher inbound	David KL7QW	David KL7QW	Robert AL7AW
11-Tudor track	Bill N7BKY	Roy KL7GQ	Roy KL7GQ

Standby operators: Ken WB7SFO, Fred KL7HFM, Tom KL7JA, and Jim KL7SL

Boards: Wilse KL7CQ, coiner of the phrase "Colder than a well digger's BOLOGNA (I forgot that earlier up there!) sandwich. Another fine, charismatic job, O Great One!!

Set-up: David Stevens KL7EB (another fine job by you, too, David!)

Magnet-movers and Living Legend pacifiers: Friday -- Jean Belfield and Beth Assadi; Saturday -- Debbie Rumery KL7RQ and Denise Slauson; Sunday -- Ginger Weed WT7AAF and Ellen KL7OR

Also might add that the club social on Saturday night at Romano's (Fireweed and C) was a smashing success (and one heckuva a relief over not having to cook, etc.)! Everyone got appropriately anesthetized but Betty KL7AP kept a stiff upper lip and did NOT, I repeat DID NOT, divulge the combination (some call it an access code) to her electric socks! Moreover, the food was tremendous.

Just to prove to you-all that this was not a put on, below is an authentic, unretouched photo of "The Board" downtown where Wilse et. al. worked his/their collective magic! Sorry it's so dark but the flash froze!!!

SHOWN: from left to right.

Denise Slauson, Debbie

Rumery KL7RQ, THE BOARD,

and Wilse Morgan KL7CQ

TONE ALERT REPORT

The emergency tone alert boards, 20 of them, are out there in radio-land! Activate the system by sending a touch-tone 9 for 10 sec on the 147.90/30 rprr. It will un-squelch a monitorer's rcvr in 1-5 sec. After unkeying, identify yourself & state your emergency. For more info on this, call Bob AL7AW at 337-6027 pm's.



YOUR LOSS IS NO ONE'S GAIN

From the desk of the Master Technician, Mr. Douglas Dickinson KL7IKX, comes the following treatise on how much output power can be lost in the Wonderful World of Handhelds through the use of a variety of antennae. So, without further a-do.....

ANTENNA TYPE	LOSS
*****	*****
Hand-held, 1/4-wave	unity gain
Telescopic	-3 dB
Helical (ducky)	-8 dB
*****	*****

Hand-held (at an angle)	
Telescopic	-10 dB
Helical	-12 dB
*****	*****
Hand-held (on belt/laying beside you)	
Telescopic (retracted)	-38 dB
Helical	-22 dB
*****	*****

TYPICAL RADIATED POWER LEVELS starting with hand-held at 100 mw

-3 dB	0.05 watts
-6 dB	0.025 watts
-9 dB	0.0125 watts
-12 dB	0.0063 watts
-15 dB	0.0031 watts
-18 dB	0.00156 watts
-21 dB	0.00078 watts
-24 dB	0.00039 watts
-27 dB	0.000195 watts
-30 dB	0.000098 watts
-33 dB	0.000049 watts
-36 dB	0.000024 watts
-39 dB	0.000012 watts

TYPICAL BUILDING LOSS

Office and high-rise	-30 dB
Shopping centers	-20 dB
Frame construction	-3 dB
Federal Building basement	-50 dB
(KL7LO special operating QTH)	

TYPICAL SHIELDING LOSS

8" concrete block wall	-6 to -8 dB
6" solid concrete wall or floor	
w/o steel reinforcement	-10 to -15 dB
Suspended metal walls	-20 to -40 dB
* Corners in narrow passageways	-15 to -20 dB
*****	*****

This means that if you are laying your radio down on the car seat beside you and running in the normal low power position, add to that the -30 db average for the suspended metal walls (car frame) and you have to begin with the -55 dB power level. No wonder you can't reach the repeater with a good signal! It's not black magic, just common sense!

USE A GOOD ANTENNA (1/4 or 5/8 wave) outside the car. Don't expect magic from your little black, blue, red, gray, whatever box. If you have questions, read up in the handbook or ask some one.

73's, Doug KL7IKX

TEMPO S-1 HIGH/LOW POWER SWITCH MODIFICATION

In my short time here in the "Great Land," I haven't noticed an overly large number of Tempo S-1s floating around, but I suspect there are more in daily use than meets the eye...or ear! It has been my experience that the S-1 is a fine radio in most respects, and rugged to the extreme. As with most radio gear, though, the venerable S-1 is not perfect. One item that is noticeably lacking is a "high/low" power switch. Such a switch can be mighty handy for conserving battery power at hamfests, close-in public service activities, or in areas where low power (in the 150 to 200 mW range) is all that's necessary to access the local "machine." The addition of one of these switches is an easy "one night" project that, of course, involves minimal, if no, cost, as all AL7DL mods do.

Materials needed for installing a high/low power switch to your S-1 are as follows: 1- SPDT micro-miniature toggle switch (I used the Radio Shack part #275-625), 1- 47-ohm, 1/4-watt resistor, and a small amount of hook-up wire. Tools needed are: a soldering iron, solder, and a sharp knife (it is also handy to have a hobby drill for mounting the switch). Begin the mod by removing the back case of the radio and exposing the foil side of the transmitter board (that's what you find when you remove the back cover). On the left side of the board (foil side), you will find where a 15-pin connector interfaces the transmitter board to the synthesizer board. From the bottom pin of the connector (on the foil side), count up 12 pins, this is the pin you will concern yourself with (see Fig. 1). You should note that if you have an older S-1 (250 mAH battery pack), there may be a brass plate covering the three bottom pins, so be sure to check. Follow this trace (12th pin) up and you will find two solder points. You will cut the foil between these two solder connections. Another note: If you have a newer S-1, there may be three connections, concern yourself with the upper and lower points (refer to Fig. 1). Solder the 47-ohm resistor between the broken parts of the trace (where you cut). This completes the lower portion of the mod. Now to return your S-1 to its high-power (normal) output! Solder a length of hookup wire to each side of the cut trace and attach the other ends

----- TEMPO S-1 HIGH/LOW POWER SWITCH MODIFICATION, cont'd. -----

of the wire to the switch. This completes the mod except for mounting the switch. I leave the mounting location up to you, but remember to leave enough space for the case to close, and so that the switch leads will not short anything in the radio. I mounted mine in the upper left-hand corner of the top. This involves some drilling and shaving of the thumbwheel switch, but it seemed to be a good, safe place to put the switch. In the closed position of the switch, the S-1 will now have an output of about 150 to 200 mW out. In the open position, the radio will have the normal (or nominal) 1.5 w output. The low position sure saves those batteries! Feel free to contact me at home if you have any questions about the mod. 73's!!!

Bryce Rumery AL7DL ph. 753-6395.

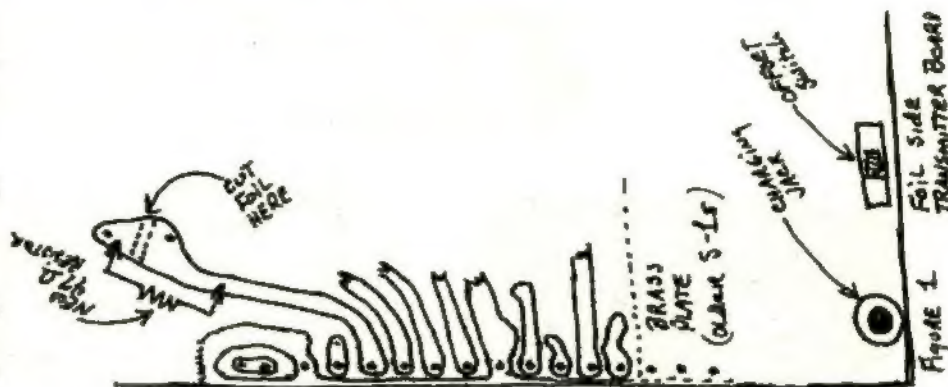


FIGURE 1

NEXT MONTH: AL7DL Productions presents: A MARS mod for the S-1 and adding a BNC connector!!!!!!

----- CORRECTION -----

Got a letter from Our Man in Seattle, Bill Balzarini KL7BB, who wanted me (and you) to know that the South East Alaska Summer and Winter Net (aka "Seasaw" Net) is convened daily on 3900 kHz at 0500 UCT (that's 7:00 pm AST). If you can make it, great!

----- OREGON STATE HAM CONVENTION -----

Received this from an OM in Oregon who would like to invite all of us to attend what appears to be a really fine convention this summer. And I quote, "The Oregon State Ham Convention, co-sponsored by the North Coast Repeater Association and the Oregon Tualatin Valley Amateur Radio Club, will be held at the Seaside Convention Center, Seaside, Oregon, on Friday, June 4, thru Sunday, June 6, 1982. Hours are 12 noon to 5 pm Friday; 8:00 am to 9:30 pm Saturday, and 8 am to 2:00 pm Sunday. Registration is \$5.00 per single and \$7.00 per couple, \$1.00 for children. Those who pre-register before March 31 will receive a special ticket for a drawing for either an Icom 2AT, 3AT, or 4AT, plus extra tickets for main prize drawing. Registrations between April 1 and 30 will receive one extra ticket for main prize drawing. Seminars: receiver design, construction, satellite earth stations, contests, radio & TV boo-boo's, ARRL forum, traffic nets and emergency services, ham satellites, and many others. Banquet speaker will be a NASA Space Shuttle astronaut. Master of Ceremonies will be Mel Ellis K7AOZ, Vice-director ARRL Northwest Division. Banquet cost is \$12.50 per person. Talk-in on 146.52 simplex and the local repeater 145.45 (-600). For more information and/or reservations, write to: Doc McLendon W7GWC, P. O. Box 920, Seaside, Oregon 97132.

----- INTERNATIONAL TELETYPE WEEKEND -----

What a weekend! The weekend of February 6-7, 1982 was International Teletype Weekend in Anchorage as a number of venerable Model 28 ASRs were modified into service for use on the ham bands. The "modifiers" were April Walter AL7CV, Rod Maney KL7SA, Steve Wilcox KL7JIM, David Epstein KL7LO, and Jerry George KL7PU. A crew of loyal helpers, including Mile KL7SR, Art KL7SK, Roger KL7HFQ, Lawrence KL7IWC, and Bowser and Cheyenne K9DOG/KL7s, helped with the assembly line procedures -- the machines were gutted out, printers were taken out on the porch of Wilse's KL7CQ QTH, dunked in degreaser/delouser, the cabinets were stripped of wires and hosed down, and then the fun started -- putting them all back together!! Meanwhile, Mount Olympus turned into somewhat of a "blivit" -- 5 pounds of you-know-what jammed into a 1-pound bag! Betty Rhodes KL7AP, president of AARC and Betty's Catering Service, provided all with delicious and sustaining food. Work pressed on late into Saturday night as special modifications for the machines were prepared. On Sunday, believe it or not, we got all machines working! It was worth it after all! Thanks to Wilse and Betty for letting us make such a mess of their QTH, and helping us thru what turned out to be a tremendous learning experience!

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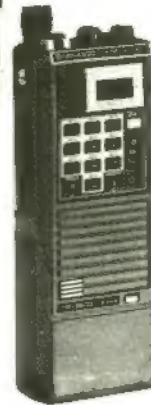
TS-130S

LIST: \$ 719.95
SALE: \$ 649.00



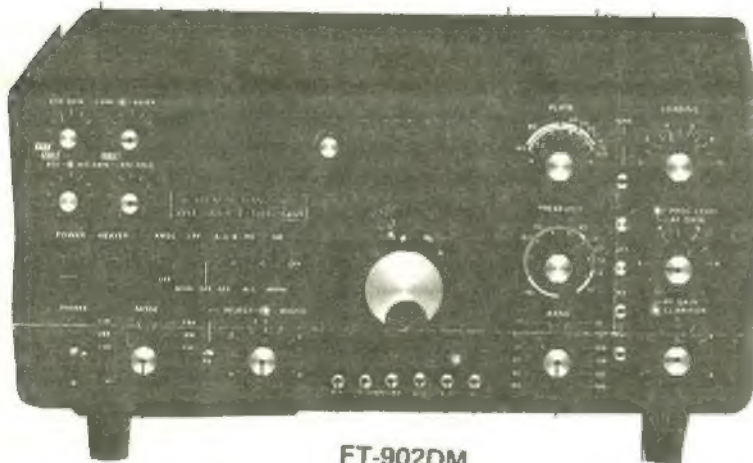
TS-830S

LIST: \$ 949.00
SALE: \$ 854.00



TR-7730
IN STOCK

YAesu



FT-902DM

LIST: \$ 1535.00
SALE: \$ 1381.00

FT-208R HANDHELDS

LIST: \$ 359.95
SALE: \$ 339.95

TR-7730

LIST: \$ 339.95
SALE: \$ 295.00

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IC-720A

LIST \$ 1,349.00
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IC-730

LIST: \$ 829.00
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MARCH ROSTER UPDATE

Well, let's see, what little tidbits can we divulge about Darling April (that's April Walter AL7CV, our dedicated Membership Chairperson) this month? I had great plans for this column this month. You know, with the new autodial functions and all...when I was a kid, there was this comic book called, "Dial H for hero." In one of my weekly hallucinatory trances which I go through in preparation for editing this rag, I had conceived the phrase, "Dial ARC for April." It was great! I was going to have a picture in here of April with a cape around her neck, and a T-shirt with a big red "A" on it. And we'd have taken the picture on a windy day so the cape would look nice and pretty flowing behind her...and she'd be standing there with her hands on her hips and her head to the side, like that lady on the Great Alaska Toy Company commercial...but alas and alack, it was not to be. Oh well, another LO dream dashed on the rocks of reality! And speaking of reality, if you have experienced any changes of the genre which would impact the membership card which Darling April has on you, please call her on the club record-a-phone 345-0719, or feel free to QRM April's own Personal Hotline 345-0507. She will be happy to talk to you! And not only that, but the roster and address labels which aid in the speedy delivery of your club newsletter to you are printed by Mr. Robert Page KL7HIU on his trusty TRS-80 computer dealie-bob!

NEW MEMBER Richard Gallear KL7IQF, 3719 Williams Apt. A, Anch, AK 99504, 276-5624 home.
NEW MEMBER Jean Belfield & Beth Assadi, 241 McCarrey #3, Anch, AK 99504, 337-8006 home.
NEW MEMBER George Maguire WL7ARV, 3101 Peterkin Ave., Anch, AK 99501, 276-1458h/277-2142w
NEW MEMBER Al Berg WB7SIC, 2256 SE Oak Crest, Hillsboro, OR 97123

CHANGES: Roy Hansen KL7GQ, new QTH, 2311 W. Tudor, Anch, AK 99507, 248-2338h
Frank Bowlin, new call & QTH, WL7D, 5511 E. 34th, Anch, AK 99504, 333-5511h/333-5561w
Leroy Davie KL7CUK, new QTH, 1690 Nesbitt, Deltona, Florida 32725
John Williams AL7CT, new QTH, 4719 E. 6th, Apt 2, Anch, AK 99504
Curt Harris KL7IUJ & Linda, new QTH, Box 154, Iliamna, AK 99606, 269-5722h
Ellen Edge KL7OR, new work phone, 278-9579x245

Dennis Allen NL7R, new phones, 694-4396h/276-3000w

Sherman Reynolds gets call sign KL7QY, Jim Steigerwald gets call sign KL7SL,
John Pash gets call sign KL7SI, Art Taylor gets call sign KL7SK, Fred Kletka gets KL7SE call,
Rod Maney gets call sign KL7SA, John Stechman gets call sign KL7SN.

Barbara Bathony phone number is 345-0373. Robert Faultersack call sign is KL7SV.

Virginia Weed gets a temporary call sign -- WT7AAF.

Mel Warner upgrades to Extra Class, gets the call sign WL7J (was AL7CU).

Jim Smith KA7APJ phone number in Seattle is (206) 523-6167.

Paul Bestry KL7FI phone number is 345-0169. Trent Fry ex-WL7AST, now KL7SY.

David Lawrence KL7HAB & Sheryl, new QTH, 3811 Laron Lane, Anch, AK 99504.

Robert Shaeffer KL7ICW phone number is 344-0082; Martha Neeley ex-WA6TED, now KL7QS.

Mike KL7IXT & Deanna KL7IZJ Barbarick home phone 688-3890; IZJ work phone 274-0531.

Joe Talbott KL7NK phones 688-9041h/271-5040w; Howard G. Turner ex-WL7AOZ, now AL7DN.

James Verle LaFollette WB4WBL home phone 753-9371, JD Delancy K1ZAT/NL7 work phone 552-3735.

As of February 1, WL7L is no longer Net Manager for the Alaska/Pacific Civil Preparedness Net.

Hopefully, Sam KL7HQJ, Milt KL7IPJ, and Fred KL7FK, will carry on the NM responsibilities.

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----- "MUSH, YOU WANT ADS, MUSH!" -----

FOR SALE: Kenwood TS-820S xcvr w/cw filter, exc cond, \$750; MC-50 desk mike, \$40; external spkr SP-820, w/filters, \$40. Glen Greeley KL7BI, phone no. 338-0442.

FOR SALE: Month-old Tentec 544 (10-thru-80 meters) digital hf xcvr, 262M pspy, mike, low-pass filter, 160-meter converter, super-easy to operate, exc cond, schematics, \$650.
Leanne Drozdoff KL7OQ, phone nos. 552-2197w/753-3426h.

WANTED: Yaesu FT-301 and pspy. Jim Larsen WA0LPK, phone no. 345-4757.

FOR SALE: Yaesu FT-901DM (like new) with YD844A mike, \$750; Robot 800 (needs repaired), \$500; Steve Diehl KL7RB 694-4227h/552-3097w. Also, new RCA TC 1209 13" CCTV monitor, goes only with the Robot, \$290.

FOR SALE: A beautiful station used occasionally by a middle-aged (not retired), shy (non-rag chewer) SWL (don't transmit much). Yaesu FT-901DM cw and am filters, spare 6146W finals, microphone, spkr, service manual, \$1000; Yaesu FV-901DM remote VFO, 40 memories, auto-scanning, \$350; Yaesu FL-2100B, new finals, 10 meters, \$400. David Vogel NL7P, 612 North Lane Street, Anchorage, Alaska 99504, 277-2967 home.

FOR SALE: Six antenna converters. Three are new, three are used but like new. All are motorized, prices are -- \$30 each for new ones, \$25 each for the others. Call Rod KL7SA at 274-7970 after 4 pm.

FOR SALE: Yaesu FT-101ZD hf xcvr. Very good cond, \$600. Larry Grindrod KL7PX, 337-6923.

WANTED: Someone to rescue Kenneth T. Delp KL7FD from a potential nervous breakdown!! Kenny, (to be as you all know by know, is the volunteer ham in charge of coordinating Amateur commu- used nications during the Iditarod Race. He needs someone to spend the time necessary to repair his Dentron MLA-2500 linear amp. Ken knows what needs to be fixed (the six at ham electrolytic capacitors need replaced) and will pay for the parts. HE JUST DOESN'T HQ's!) HAVE THE TIME. So, someone please come forth and call Ken at 272-9257/269-1112 h/w.

The Anchorage Amateur Radio Club, Inc., is affiliated with the Anchorage Community College and the University of Alaska, Anchorage, through their community affairs programs.

Want ads are placed free of charge to members of the Anchorage Amateur Radio Club, Inc., phone newsletter editor David Epstein KL7LO, 276-0787h/271-5224w, or club phone 345-0719 to place an ad. Commercial ads are \$5.00 per quarter-page, camera-ready copy only, please!

MAKE A COMMITMENT TODAY!

----- SUPPORT YOUR LOCAL AMATEUR RADIO CLUB!! -----

Happy Iditarod !!?!!

Happy Vernal

Equinox !!

Happy St. Patricks Day !!